

**ABSTRACT**

This invention concerns extrudates having high surface area materials and at least one metal ion adsorbed onto the high surface area material. The extrudates may be breathable films, multilayer laminates and pultruded articles. The extrudates may be made into storage and packaging material to reduce odor and retard the ripening of fruit. The extrudates, if in the form of a breathable film or multilayer laminate may be used as outer cover material for personal care products like diapers, adult incontinence products, training pants and the like. The high surface area particle-containing extrudate may be made by adding modified nanoparticles to a filler before the filler is treated with a fatty acid. Alternatively, a filler previously treated with a fatty acid may be modified by subjecting the filler to sonic energy in the presence of an aqueous solution of metal ions and nanoparticles.